To: Distribution

From: Ernestine Bryant, STOrage and RETrieval (STORET), Technical Project Leader (TPL), SDC/SAIC

Subject: Minutes of STORET Change Control Board (CCB) Meeting

1.0   Purpose

A CCB Meeting was held on June 26, 2003 at the Systems Development Center (SDC). The purpose of the meeting was to review and address the status of the STORET Project activities, resolve project issues, and ensure that changes are within the Task Order scope and are processed in a visible and traceable manner.

2.0   Attendees

SDC	EPA
Ernestine Bryant	Robert King (TOPO)
Stephen Smith	Lee Manning (ATOPO)
Blythe Norris	
Joseph Wilson	
Susan Wenberg	

3.0   Discussion Topics

The following sections detail the discussions of the project tasks and associated Software Incident Reports (SIRs).

3.1   Report Module

The Biological Export report designs were reviewed and approved as presented in Attachment A. The table also represents the relative order of columns for each report. The names of the Biological Exports will be: Results Biological Small Export, Results Biological Medium Export, Results Biological Large Export, and Results Biological Giant Export.

An additional Biological Export report will be created to provide only Multi-Taxon Population Census (MTPC) data. This report will be modeled after the Results Biological Giant Export report.

A single report will be created to provide Habitat Assessment data. The report will include user-defined and system-defined Habitat Assessment information. It will be generally modeled after the Result Physical/Chemical Giant Export report.

3.2   Central Warehouse

The Central Warehouse report designs were reviewed and the following decisions made:

C   Station Report (see Attachment B).

    −   The data element Permanence was added to the Spring data element group after Spring Type Improvement.

    −   The data elements Spring Type Code and Spring Type Name were combined and the name changed to USGS Geologic Unit Code-Name.

    −   The data element USGS Lithologic Unit Code-Name was added to the Spring data element group after Spring Other Name.

C   Regular Result Report (see Attachment C).

    −   The data elements Subject Taxon and Biopart were removed from this report. They will only be included on the Biological Result Report.

    −   The data element Analytical Proc Acronym was combined with Analytical Proc ID, and retained the name Analytical Proc ID.

C   Biological Result Report (see Attachment D).

    −   No changes were made.

C   Habitat Result Report (see Attachment E).

    −   The name of the data element Habitat Char Desc was changed to Habitat Classification Name.

The basic design of the Central Warehouse table structure was discussed and the following decisions made:

C   Five new dimension tables will be created to help query Biological data. These tables will be: DI_ACTIVITY_INTENT, DI_ACTIVITY_COMMUNITY, DI_BIOPART, DI_SUBJECT_TAXON, and DI_GROUP_TYPE.

C   The Central Warehouse will contain three Result Fact tables. These will be named FA_REGULAR_RESULT, FA_BIOLOGICAL_RESULT, and FA_HABITAT_RESULT.

C   ITIS_NUMBER and EPA_REG_NUMBER will be added to the FA_BIOLOGICAL_RESULT fact table.

C   ITIS_NUMBER, EPA_REG_NUMBER, and CAS_NUMBER will be added to the FA_REGULAR_RESULT fact table.

C   EPA_REG_NUMBER and CAS_NUMBER will be added to the FA_HABITAT_RESULT fact table.

The navigation of the Central Warehouse Web Application was discussed at a high-level and it was determined that separate search criteria pages would exist for each of the three Result classifications (Regular, Biological, and Habitat). This will allow search pages and reports to be customized for each type of data. In addition, a separate Station search page will still exist. This design is summarized in Attachment F.

Oracle 9i will not be used for development of the Central Warehouse at this time.

A list of Station Types was distributed. B. King and L. Manning will determine the order in which the Station Types will appear on the Central Warehouse web pages. They will also develop the rules that will be used to assign Station Surface Water/Facility/Ground Water (SFG) Indicator values.

The latitude/longitude value labels on the Search Criteria Summary page will be changed from MAX Latitude, MIN Latitude, MIN Longitude, and MAX Longitude to North Limit, South Limit, West Limit, and East Limit respectively.

3.3 STORET version 2.0

An SIR will be created to disallow the creation of Portable Data Logger (PDL) Activities when a Medium has not been selected. A script to modify user data will be included to apply the value of "Water" to any PDL Activities where the Medium is a single space (i.e., " ").

3.4 STORET version 3.0

Continued preparation for the upcoming Joint Requirements Planning (JRP) was discussed. The draft agenda was distributed for review. The agenda was approved with a few minor changes.

The objectives for the first JRP were emphasized as follows:

C   Demonstrate the STORET system (i.e., STORET v2.0 and Central Warehouse).
C   Educate the attendees on STORET v2.0 business rules at a high level.
C   Validate the rules. Give the attendees every opportunity to expand upon or take away from these rules.
C   Keep the discussion open.

S. Wenberg will facilitate the JRP to be held July 29-31, 2003 at the Systems Development Center.

The Trips/Station Visit and Organization/Program business rule summaries was given to B. King.

A demonstration of the Stations Forms was tentatively scheduled for the next CCB.

4.0 Action Item Summary

Number	Description	Date Issued	Status	Assignment	Date Completed
02-0020	Determine order of Station Types.	11/20/2002	Open	B. King	
02-0021	Research the possibility of an 8-character Beach ID.	12/12/2002	Closed	B. King	02/27/2003
03-0001	Add Citation IDs to the Data Entry Application v2.0 DEMOTEST.	02/27/2003	Closed	B. King	03/06/2003
03-0002	Send PDF of Server Model to B. King	02/27/2003	Closed	B. Norris	03/06/2003

Number	Description	Date Issued	Status	Assignment	Date Completed
03-0003	Provide sample batch files containing new functionality to B. King.	02/27/2003	Closed	B. Norris	03/06/2003
03-0004	Verify number of characters in Total Number in Group field on Single Taxon Group Summary Data Entry Window (3 characters?).	03/19/2003	Closed	S. Smith	04/16/2003
03-0005	Load Central Warehouse at EPA.	04/16/2003	Closed	J. Wilson	04/22/2003
03-0006	Provide "no rows" export of Central Warehouse.	04/16/2003	Closed	J. Wilson	04/18/2003
03-0007	Develop Surface Water/Facility/Ground Water (SFG) Indicator assignment rules.	06/26/2003	Open	B. King	
03-0008	Contact Leo Gueriguian regarding invitation letter distribution.	06/26/2003	Open	S. Wenberg	

5.0   Next Meeting

The next meeting was scheduled for July 11, 2003.

6.0   Distribution to EPA & SDC Interested Parties

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7.0   Approval of Minutes as Submitted or Revised

_____   _____

Robert E. King   Date
Task Order Project Officer

ATTACHMENT A

Biological Export Reports

STORET Report Module v2.0.1 - Biological Export Reports

Table	Attribute	Column Name	Small	Medium	Large	Giant
TSMORGAN	ORG_ID	Org ID	X	X	X	X
	NAME	Org Name	X		X	X
TSMSTATN	IDENTIFICATION_CD	Station ID	X	X	X	X
	NAME	Station Name	X		X	X
TSRFDACT	START_DATE	Act Start	X	X	X	X
	START_TIME	N/A	X	X	X	X
	START_TIME_ZONE	N/A	X	X	X	X
TSRTRIP	ID_CODE	Trip ID		X	X	X
TSRSTVST	ID_NUMBER	Vst #		X	X	X
TSRFDACT (cont.)	ID_CODE	Activity ID	X	X	X	X
	REPLICATE_NUMBER	Rep #	X	X	X	X
	MEDIUM_TYPE_NAME	Act Medium	X	X	X	X
TSRFDACT (cont.)	TYPE_NAME	Act Type	X	X	X	X
	CATEGORY_TYPE_NAME	Act Category	X	X	X	X
	INTENT_TYPE_NAME	Act Intent	X	X	X	X
	COMMUNITY_NAME	Act Community	X	X	X	X
	QC_INDICATOR	QC Activity	X	X	X	X
TSRCHAR TSRFDACT (cont.)	DISPLAY_NAME SPECIES_NUMBER	Act Subj Taxon (concatenated with taxon)	X	X	X	X
TSRBIOPT	NAME	Biopart Name	X	X	X	X
TSMALP	POINT_NAME	Point Name				X

Table	Attribute	Column Name	Small	Medium	Large	Giant
	LAT_DIRECTION GPS_LAT_DEGREE_MSR GPS_LATMINUTE_MSR w/ translation	Latitude				X
	LONG_DIRECTION GPS_LONG_DEG_MSR GPS_LONG_MIN_MSR w/ translation	Longitude				X
TSMMAD	DESCRIPTION	Horizontal Datum				X
		Geopositioning Method				X
TSRFDACT (cont.)	STOP_DATE	Act Stop			X	X
	STOP_TIME	N/A			X	X
	STOP_TIME_ZONE	N/A			X	X
	RELTV_DEPTH_NAME	Activity Rel Depth		X	X	X
	DEPTH_TO_ACTIVITY	Activity Depth	X	X	X	X
	DEPTH_TO_ACT_UN_CD	Activity Depth Unit	X	X	X	X
	UPPER_DEPTH_TO_ACT	Activity Upper Depth		X	X	X
	LOWER_DEPTH_TO_ACT	Activity Lower Depth		X	X	X
	DEPTH_MSR_UNT_CD	Upr Lwr Depth Unit		X	X	X
TSRFDSET	ID_CODE	Field Sets			X	X
TSRCHAR (cont.) or TSRHCSC	DISPLAY_NAME or CHARACTERISTIC_NAME	Characteristic Name	X	X	X	X
TSRRSULT	SPECIES_NUMBER	(concatenated with taxon)	X	X	X	X
	VALUE_TEXT	Res Val Text	X	X	X	X
	VALUE_MEASURE	Res Val			X	X
TSRUOM	SHORT_FORM_NAME	Res Unit	X	X	X	X

Table	Attribute	Column Name	Small	Medium	Large	Giant
TSMGNTXT	DESCRIPTION_TEXT	Text Result		X		X
TSMPRMVL	SMPL_FRAC_TYPE_NM	Sampl Frac Type	X	X	X	X
TSRRSULT (cont.)	VALUE_TYPE_NAME	Res Type		X	X	X
	STATISTIC_TYPE_NM	Statistic Type		X	X	X
TSMGNTXT (cont.)	DESCRIPTION_TEXT	Result Comment		X	X	X
TSRRSULT (cont.)	VALUE_STATUS	Res Stat		X	X	X
	WT_BASIS_TYPE_NM	Weight		X	X	X
	TEMP_BASIS_LVL_NM	Temp		X	X	X
	DUR_BASIS_TYPE_NM	Duration		X	X	X
	FNCTIONAL_FEED_GRP	Feeding Group				X
	TAXON_POLLUTION	Pollution Tolerance				X
	TROPHIC_LEVEL	Trophic Level				X
TSMPRMVL (cont.)	FIELD_VALUE	Habit				X
		Voltinism				X
TSRCLDES	CELL_SHAPE_TYPE_NM	Cell Shape				X
	CELL_TYPE_NM	Cell Form				X
TSRLSPP	SOURCE_ACR	Samp Prep Src		X	X	X
	PREPARATION_ID	Samp Prep ID		X	X	X
	NAME	Samp Prep Name				X
TSRANLPR	SOURCE_ACR	An Proc Src		X	X	X
	PROCEDURE_ID	An Proc ID		X	X	X
	NAME	An Proc Name				X
TSMGNTXT (cont.)	DESCRIPTION	Anal Proc Exception				X
TSRLAB	ID_CODE	Lab ID			X	X
	NAME	Lab Name			X	X

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Table	Attribute	Column Name	Small	Medium	Large	Giant
TSRRSULT (cont.)	LAB_CERT_IND_CODE	Crt			X	X
	LAB_BATCH_ID_CODE	Lab Batch ID			X	X
	ANALYSIS_DATE	Anal Date			X	X
	ANALYSIS_TIME	N/A			X	X
	ANALYSIS_TIME_ZONE	N/A			X	X
TSRDQL	MIN_QUANT_LIMIT	Lwr Quan Lmt			X	X
	MAX_QUANT_LIMIT	Upr Quan Lmt			X	X
	MIN_DETECT_LIMIT	Detectn Lmt		X	X	X
TSRUOM (cont.)	SHORT_FORM_NAME	Detectn Lmt Unit		X	X	X
TSRDQL (cont.)	DESCRIPTION_TEXT	Detection Lmt Desc			X	X
TSRLBRMK	SHORT_NAME	Lab Remarks			X	X
TSRRSULT (cont.)	REF_PT_FROM_NAME	Dist Meas From				X
	REF_PT_TO_NAME	Dist Meas To				X
TSRRCI	PARTICLE_SIZE_BASIS	Particle Size				X
TSRRSULT (cont.)	REPL_ANALYSIS_NUM	Repl Ct				X
	PRECISION_AMT_TEXT	Precision				X
	CONF_LVL_PCT_MSR	Conf Level (CL)				X
	CONF_LVL_CORR_BIAS	CL Corrected for Bias				X
	BIAS	Bias				X
	DILUTION_IND_CODE	Dilution Ind				X
	RECOVERY_IND_CODE	Recovery Ind				X
	CORRECTION_IND_CD	Correction Ind				X
TSRBRG	ID_CODE	BRG ID	X	X	X	X
	TYPE_NAME	Bio Group Type	X	X	X	X
TSRCHAR (cont.)	DISPLAY_NAME	Bio Group Subj Txn	X	X	X	X

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Table	Attribute	Column Name	Small	Medium	Large	Giant
TSRBRG (cont.)	SPECIES_NUMBER	(concatenated with taxon)	X	X	X	X
	TYPE_INDICATOR	P/B	X	X	X	X
	DESCRIPTION_TEXT	Bio Group Description	X	X	X	X
TSRCPV	SHORT_NAME	Group Desc Sex	X	X	X	X
	SHORT_NAME	Group Desc Lifestage	X	X	X	X
TSRBRGI	INDIVIDUAL_NUMBER	Ind #	X	X	X	X
TSRCHAR (cont.)	DISPLAY_NAME	Common Class Desc	X	X	X	X
TSRRCI (cont.)	PRIM_CLASS_DESC	Pri Cls Desc	X	X	X	X
	SEC_CLASS_DESC	Sec Cls Desc	X	X	X	X
	LOWER_BND_AMT	Lwr Bnd Amt	X	X	X	X
	UPPER_BND_AMT	Upr Bnd Amt	X	X	X	X
TSRUOM (cont.)	SHORT_FORM_NAME	Bio RCI Unt	X	X	X	X
	SUMMARY_GRP_COUNT	# Grp	X	X	X	X
TSRBRG (cont.)	VALUE_TYPE_NAME	BRG Cnt Type		X	X	X

ATTACHMENT B

Station Report

Warehouse Station Report Element Layout
June 26, 2003

Station Information

Org ID
Station ID
Station Name
Org Name
Primary Type
Secondary Type
S/G/F Indicator
Well Number
Well Name
Pipe Number
NAICS Code
Spring Info
.... Spring Type Improvement
.... Spring Type Code
.... Spring Type Name
.... Spring Other Name

Location Point Type
Point Sequence Number
Point Name
Latitude/Longitude
.... Latitude
.... Longitude
Lat/Long Info
.... Horizontal Datum
.... Geopositioning Method
.... Map Scale

Elevation (w/ Units)
Additional Elevation Info
.... Elevation Datum
.... Elevation Method

Country Name
State Name
County Name
Hydrologic Unit Code
Hydrologic Unit Name
RF1 Info
.... RF1 Segment Code
.... RF1 Segment Name
.... RF1 Mileage
.... On Reach Ind

NRCS Watershed ID
Estuary Info
.... Primary Estuary
.... Secondary Estuary
.... Other Estuary Name

Great Lake Name
Ocean Name
Natv American Land Name
FRS Key Identifier
Station Document/Graphic Name

Notes:

Underlined Elements are
selected by Default

Italics Elements are New in
v2.0

Bold Elements were added
during v2.0 design meetings

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ATTACHMENT C

Regular Result Report

Warehouse Result Report Element Layout - Regular Results
June 26, 2003

Basic Org Info
Org ID
Org Name

Basic Station Info
Station ID
Station Name
Station Location Info
.... Station Latitude
.... Station Longitude
.... State
.... County
.... HUC
S/G/F Indicator

Station Visit Info
Visit Num
Visit Start
Visit Stop
Trip ID
Trip Name

Basic Activity Info
Activity ID
Activity Start
Activity Stop
Activity Medium
Activity Matrix
Activity Type
Activity Category-Rep#
Activity Intent
Community Sampled
Subject Taxon
Biopart
Field Set

Actual Activity Location Info
Actual Location Point Type
Actual Point Sequence #
Actual Point Name
Actual Activity Latitude
Actual Activity Longitude
Well Number
Pipe Number
Additional Activity Location Info
.... Geopositioning Method
.... Horizontal Datum
.... **Map Scale**

Activity Depth Info
Activity Depth
Activity Depth Unit
Activity Upper Depth
Activity Rel Depth
Activity Lower Depth
Upr Lwr Depth Unit

Activity Meta Data
Sample Collection ID
Field Gear ID
Field Gear Config ID
Sample Pres ID

Basic Result Info
Characteristic Name
Sample Fraction
Value Type
Statistic Type
Result Value as Text
Result Value as Number
Units
Result Comment
Result Free Text
Weight Basis
Temperature Basis
Duration Basis
Particle Size Basis
Distance Measured From
Distance Measured To

Analytical Proc. Info
Analytical Proc. Acronym
Analytical Proc. ID
Additional Anal Proc Info
.... Detection Limit
.... Detection Limit Descript
.... Lower Quantification Limit
.... Upper Quantification Limit

Basic Lab Info
Lab Remark
Dilution Ind
Recovery Ind
Correction Ind
Other Lab Info
.... Lab ID
.... Lab Name
.... Lab Cert.
.... Lab Batch ID
.... Analysis Date

Result QA Info
No. of Reps.
Precision
Bias
Conf Level
Correction for Bias Ind

Notes:

Underlined Elements are selected by Default

Italics Elements are New in v2.0

Bold Elements were added during v2.0 design meetings

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ATTACHMENT D

Biological Result Report

Warehouse Result Report Element Layout - Biological Results
June 26, 2003

Net Tow Info

Trawl Start Point Name
Trawl Start Latitude
Trawl Start Longitude
Trawl Start Depth (w/ units)
Trawl Stop Point Name
Trawl Stop Latitude
Trawl Stop Longitude
Trawl Stop Depth (w/ units)
Fished Duration Measure (w/ units)
Boat Speed (w/ units)
Fished Distance (w/ units)
Rel. Current Dir.
Rel. Wind Dir.
Trawl Comment

Basic Electroshock Info

Voltage Measure
Current Type Code
Amperage Measure
Pass Count
Pass Length Measure (w/ units)
Pulse Rate Measure
Electroshock Comment
Total Energzd Time (w/ units)

Net Non-Tow Info

Sampling Duration (w/ units)
Orientation to Current
Rel. Current Dir.
Rel. Wind Dir.
Trap Net Comment

Bio Group Info

General Group Info

- Bio Result Group ID
- Bio Result Group Type
- Bio Result Group Subject Taxon (w/ Species #)
- Bio Result Group Desc.

Multi-Taxon Pop. Census Info

- Feeding Group
- Pollution Tolerance
- Trophic Level
- *Habit*
- *Voltinism*
- Cell Shape
- Cell Form

Single Taxon Group Summary Info

- Number in Group
- Group Count Type

Single Taxon Frequency Class Info

- Phys/Bio Ind
- Bio Result Group ID (sex)
- Bio Result Group ID (lifestage)
- Bio Result Group Class Var
- Class Prim. Desc.
- Class Sec. Desc
- Class Lower Bound
- Class Upper Bound
- Units

Single Taxon Individual Info

- Number in Group
- Bio Individual Number

Notes:

<u>Underlined Elements</u> are selected by Default

Italics Elements are New in v2.0

Bold Elements were added during v2.0 design meetings

ATTACHMENT E

Habitat Result Report

Warehouse Result Report Element Layout - Habitat Results
June 26, 2003

Basic Org Info
Org ID
Org Name

Basic Station Info
Station ID
Station Name
Station Location Info
.... Station Latitude
.... Station Longitude
.... State
.... County
.... HUC

Station Visit Info
Visit Num
Visit Start
Visit Stop
Trip ID
Trip Name

Basic Activity Info
Activity ID
Activity Start
Activity Stop
Activity Type
Field Set

Actual Activity Location Info
Actual Location Point Type
Actual Point Sequence #
Actual Point Name
Actual Activity Latitude
Actual Activity Longitude
Additional Activity Location Info
.... Geopositioning Method
.... Horizontal Datum
.... **Map Scale**

Basic Result Info
Characteristic Name
Habitat Char Desc
Sample Fraction
Value Type
Statistic Type
Result Value as Text
Result Value as Number
Units
Result Comment
Result Free Text
Weight Basis
Temperature Basis
Duration Basis
Distance Measured From
Distance Measured To

Analytical Proc. Info
Analytical Proc. Acronym
Analytical Proc. ID
Additional Anal Proc Info
.... Detection Limit
.... Detection Limit Descript
.... Lower Quantification Limit
.... Upper Quantification Limit

Basic Lab Info
Lab Remark
Dilution Ind
Recovery Ind
Correction Ind
Other Lab Info
.... Lab ID
.... Lab Name
.... Lab Cert.
.... Lab Batch ID
.... Analysis Date

Result QA Info
No. of Reps.
Precision
Bias
Conf Level
Correction for Bias Ind

Notes:

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selected by Default

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during v2.0 design meetings

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ATTACHMENT F

Central Warehouse Site Map

Central Warehouse Site Map
June 26, 2003

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